AMENDMENTS TO THE CLAIMS

1. (Previously presented) A process for isomerizing cis-2-pentenenitrile to trans-3-pentenenitrile in the presence of aluminum oxide as a catalyst, wherein the aluminum oxide has a BET surface area of at least 50 m^2/g and the reaction is carried out at a temperature in the range of from 50°C to 250°C.

2. (Original) The process according to claim 1, wherein the aluminum oxide has a BET surface area of at least 70 m^2/g.

3. (Original) The process according to claim 1, wherein the aluminum oxide has a BET surface area of at most 400 m^2/g.

4. (Previously presented) The process according to claim 1, wherein the isomerization is carried out in the liquid phase.

5. (Previously presented) The process according to claim 1, wherein the reaction is carried out at a temperature of at least 120°C and at most 200°C.

6. (Previously presented) The process according to claim 2, wherein the isomerization is carried out in the liquid phase and the aluminum oxide has a BET surface area of at most 400 m^2/g.

7. (Previously presented) The process according to claim 6, wherein the reaction is carried out at a temperature of at least 120°C and at most 200°C.

8. (Previously presented) The process according to claim 1, wherein the aluminum oxide has a BET surface area of at least 100 m^2/g.

9. (Previously presented) The process according to claim 1, wherein the aluminum oxide has a BET surface area of at most 300 m^2/g.

10. (Previously presented) The process according to claim 7, wherein the aluminum oxide has a BET surface area of at least 100 m^2/g and at most 300 m^2/g.

11. (New) The process according to claim 1, wherein the aluminum oxide has a BET surface area of at least 50 m^2/g and at most 400 m^2/g.

12. (New) The process according to claim 4, wherein the aluminum oxide has a BET surface area of at least 50 m^2/g and at most 400 m^2/g.